AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- (original): An optical inspection system, comprising:
 a light source outputting an annular beam;
 an objective lens focusing the annular beam at a target; and
 a detector receiving light scattered from the target, through the objective lens.
- 2. (original): The optical inspection system as set forth in claim 1, wherein: the light source also outputs a circular beam; the objective lens focuses the circular beam at the target; and the detector receives light reflected from the target through the objective lens.
- 3. (original): The optical inspection system as set forth in claim 2, wherein the light source produces a selected one of the annular beam and the circular beam in response to a selection of imaging operation type.
- 4. (original): The optical inspection system as set forth in claim 3, wherein, when the imaging operation type is bright field imaging, the light source is controlled to produce the

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circular beam, and, when the image operation type is dark field imaging, the light source is controlled to produce the annular beam.

5. (original): The optical inspection system as set forth in claim 1, wherein: the detector receives the scattered light, as dark field detection, through a portion of the objective lens corresponding to an inner part of the annular beam; and

the detector simultaneously receives light reflected from the target, as bright field detection, through a portion of the objective lens corresponding to an outer part of the annular beam.

6. (original): The optical inspection system as set forth in claim 1, further comprising:

a scanner scanning the annular beam along a line in a given scanning direction to provide a scanned single annular beam; and

a multiple beam splitter producing multiple annular beams of substantially identical intensity from the scanned single annular beam.

7. (original): The optical inspection system as set forth in claim 6, wherein: the detector receives the scattered light, as dark field detection, through a portion of the objective lens corresponding to an inner part of each of the annular beams; and

the detector simultaneously receives light reflected from the target, as bright field detection, through a portion of the objective lens corresponding to an outer part of each of the annular beams.

- 8. (original): The optical inspection system as set forth in claim 6, wherein the detector is a multiple line CCD camera, and wherein each of the multiple annular beams is imaged on a separate one of the lines of the multiple line CCD camera.
 - 9. (original): An optical inspection system, comprising:
 - a light source outputting a single beam;
- a scanner scanning the single beam along a line in a given scanning direction to provide a scanned single beam; and
- a multiple beam splitter producing multiple beams of substantially identical intensity from the scanned single beam.
- 10. (original): The optical inspection system as set forth in claim 9, wherein the multiple beam splitter produces the multiple beams with a diffractive optical element having uniform diffraction efficiency.
- 11. (original): The optical inspection system as set forth in claim 10, wherein the diffractive optical element is a Dammann grating.

12. (original): The optical inspection system as set forth in claim 9, further comprising:

an objective lens focusing the multiple beams at a target; and
a detector receiving light returned from the target, through the objective lens
wherein the detector includes a multiple line CCD camera, and wherein each of the
multiple annular beams is received on a separate one of the lines of the multiple line CCD
camera.

- 13. (original): An optical inspection system, comprising:
- a light source outputting a beam; and
- a scanner scanning the beam in a beam spot across a target, the target being movable in a target movement direction;

wherein the beam has a scanning direction not perpendicular to the target movement direction.

- 14. (original): The optical inspection system as set forth in claim 13, wherein the beam spot travels a distance in the mechanical scanning direction that is greater than the distance in between scan lines in the mechanical scanning direction.
 - 15. (original): An optical inspection system, comprising:
 - a light source outputting a beam;

a confocal optical arrangement; and

optics for focusing the beam at a target and directing captured light to a detector through the confocal optical arrangement.

- 16. (original): The optical inspection system as set forth in claim 15, further comprising a control unit controlling the focus of the optics based on:
 - a light level threshold, and
- a light level signal indicative of light received by the detector through the confocal optical arrangement.
 - 17. (canceled).
 - 18. (original): An optical inspection system, comprising:
 - a light source providing a beam of light through a pupil;
 - a multiple beam splitter receiving the light through the pupil;
 - a scanner receiving the multiple beams and providing scanned multiple beams;
- a beam splitter receiving the scanned multiple beams and illuminating a target through an objective lens;

the objective lens collecting light returned back from the illuminated target and passing the collected light through the beam splitter to an imaging lens;

the imaging lens receiving the light passing through the beam splitter and focusing the light to a bright field channel detector.

- 19. (original): The optical inspection system as set forth in claim 18, wherein the bright field channel detector includes a multiple line CCD camera, and wherein each of the multiple annular beams is received on a separate one of the lines of the multiple line CCD camera.
- 20. (original): The optical inspection system as set forth in claim 18, further comprising:

an other beam splitter optically disposed between the imaging lens and the bright field channel detector; and

the light from the imaging lens passing through the beam splitter being focused also on a dark field channel detector.

- 21. (original): The optical inspection system as set forth in claim 20, wherein at least one of the bright field channel detector and the dark field channel detector includes a multiple line CCD camera, and wherein each of the multiple annular beams is received on a separate one of the lines of the multiple line CCD camera.
 - 22. (original): An optical inspection system, comprising:

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- a light source providing a beam of light;
- a scanner receiving the light through a first beam splitter and providing scanned light;
- a second beam splitter receiving the scanned light through a scan lens, and illuminating a target through an objective lens;

the objective lens collecting light returned back from the illuminated target and passing the collected light to the second beam splitter;

the second beam splitter providing part of the collected light, as a returned light signal, back through the scan lens and scanner to the first beam splitter;

the first beam splitter deflecting the returned light signal through a focusing lens and a pinhole; and

one or more detectors receiving the light through the pinhole.

23. (original): The optical inspection system as set forth in claim 22, wherein:

the light source provides the beam of light through a pupil;

a multiple beam splitter receives the light through the pupil;

the light received by the scanner includes multiple beams provided by the multiple beam splitter, and the light scanned by the scanner includes multiple scanned beams;

the second beam splitter provides part of the collected light through an imaging lens to a bright field channel detector.

- 24. (original): The optical inspection system as set forth in claim 23, wherein the bright field channel detector includes a multiple line CCD camera, and wherein each of the multiple annular beams is received on a separate one of the lines of the multiple line CCD camera.
- 25. (original): The optical inspection system as set forth in claim 23, further comprising:

a third beam splitter optically disposed between the imaging lens and the bright field channel detector; and

the light from the imaging lens passing through the third beam splitter being focused also on a dark field channel detector.

- 26. (original): The optical inspection system as set forth in claim 25, wherein the multiple scanned beams are annular beams.
- 27. (original): The optical inspection system as set forth in claim 25, wherein at least one of the bright field channel detector and the dark field channel detector includes a multiple line CCD camera, and wherein each of the multiple annular beams is received on a separate one of the lines of the multiple line CCD camera.

- 28. (original): The optical inspection system as set forth in claim 23, wherein the multiple beam splitter produces the multiple beams with a diffractive optical element having uniform diffraction efficiency.
- 29. (original): The optical inspection system as set forth in claim 28, wherein the diffractive optical element is a Dammann grating.
 - 30. (original): The optical inspection system as set forth in claim 22, wherein: the target is movable in a target movement direction; and

the scanner scans with a scanning direction not perpendicular to the target movement direction.

Claims 31-59 (canceled).